



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. Serial No.: 09/905,623 Art Unit: 2876  
Filing Date: 7/13/2001 Examiner: Koyama, Kumiko  
5 Inventor: Stuart Asakawa  
Title: PRINT FOR PAY PRINTER  
Attorney Docket: 10011919-1 Confirmation No.: 3732

#4  
3-5-03  
J. Carter

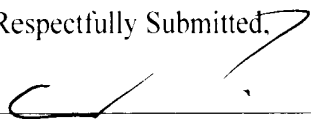
10 APPLICANT'S REPRESENTATIVE AFFIDAVIT UNDER 37 CFR 1.131

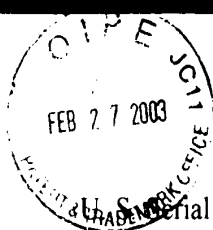
The undersigned applicant's representative prepared and filed the present application. A request to prepare the present application was issued to applicant's representative March 30, 2001. On May 4, 2001 the undersigned applicant's representative received authorization to proceed with preparation and  
15 filing of the present application. Work directed toward preparation of the application including interaction between applicant's representative and inventor Stuart Asakawa occurred in mid-June 2001 including exchange of preliminary drafts of the application and a final draft approval for filing by inventor Stuart Asakawa on July 10, 2001. The subject application was filed in the United States Patent and Trademark Office on July 13, 2001.

20 I hereby declare that all statements made herein of my own knowledge are true and that said statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements  
25 may jeopardize the validity of the application or any patent issued thereon.

Dated: 2-20-03

Respectfully Submitted,

30   
Keith A. Cushing  
Reg. No. 32,407  
35 (503) 220-8575



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INVENTOR AFFIDAVIT UNDER 37 CFR 1.131

I have reviewed a copy of the claims presently pending in the above-captioned U.S. patent application No. 09/452,279 (hereafter "subject patent application"). Provided herewith is a copy these claims identified as Attachment 1. The subject invention, as set forth in the attached claims, was conceived in the United States prior to February 22, 2001.

To the best of my recollection, I worked on the subject invention including conception of basic design principles at least as of December 5, 2000.

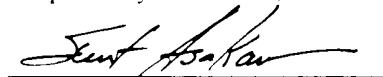
On December 5, 2000 I documented work on the subject invention in my lab book. I have attached hereto one (1) page from my lab book, identified as Attachment 2, including my signature and date of December 5, 2000 made concurrently with these entries. These entries correspond to the basic design of the subject invention as ultimately set forth and claimed in the present patent application.

On January 31, 2001 I initiated submission of a disclosure document to the assignee of the present invention. This initial step included preparation of the disclosure document and uploading an electronic document "p4ppatent.ppt." I have attached hereto the Invention Disclosure Document No. 20010131.181552 assigned PD NO. 10011919 and received in the legal department of the assignee of the present invention on February 1, 2001. Provided herewith is a copy of this Invention Disclosure identified as Attachment 3. The attached Invention Disclosure Document includes entries corresponding to the basic design of the subject invention as ultimately set forth and claimed in the present application. Also included with the Invention Disclosure Statement is a copy of the document uploaded January 31, 2001, bearing a date of January 31, 2001, and entitled "Print For Pay Business Model." This document represents the basic design of the subject invention as ultimately set forth and claimed in the present application.

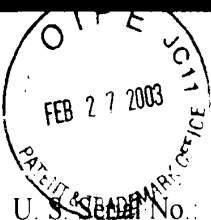
I hereby declare that all statements made herein of my own knowledge are true and that said statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated: 19 February 2003

Respectfully Submitted,

  
Stuart Asakawa

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U. S. Patent No.: 09/905,623 Art Unit: 2876  
Filing Date: 7/13/2001 Examiner: Koyama, Kumiko  
5 Inventor: Stuart Asakawa  
Title: PRINT FOR PAY PRINTER  
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10 ATTACHMENT (1 of 3) TO 37 CFR 1.131 INVENTOR AFFIDAVIT

We claim:

1. A method of operating a printer, said method comprising:  
15 providing a printer including a plurality of printer resources;  
receiving a resource request at said printer, said resource request including a request for at least  
one of use and a right of use of a selected at least one printer resource;  
operating said printer according to said resource request including at least one of use of and right  
of use of said selected at least one printer resource; and  
20 initiating a payment transaction based on said operating step.

2 A method according to claim 1 wherein said printer initiates said payment transaction.

3 A method according to claim 2 wherein said printer includes a consumable element, said  
25 consumable element including a processing element initiating said payment transaction.

4 A method according to claim 1 wherein said selected printer resource comprises  
enhanced output produced by said printer relative to output produced without use of said selected at least  
one printer resource  
30

5 A method according to claim 4 wherein said selected at least one printer resource  
comprises a selected printer resolution.

6 A method according to claim 4 wherein said selected at least one printer resource  
35 comprises a selected printer throughput speed.

7 A method according to claim 1 wherein said selected at least one printer resource  
comprises access to a selected communication channel.

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8. A method according to claim 7 wherein said selected communication channel comprises at least one of an IR link and a network link.

5 9. A printing system comprising:  
printer control including a plurality of resources supporting operation of a printer, said plurality of printer resources comprising a first resource set and a second resource set;  
print job control receiving a request relative to at least one of said plurality of printer resources;  
and  
10 transaction control detecting said request and initiating a payment transaction for said request when said at least one of said plurality of printer resources is a member of said second set.

10. A system according to claim 9 wherein said request comprises an incident of use for said at least one of said plurality of printer resources.

15 11. A system according to claim 9 wherein said request comprises a period of allowed right of access to said at least one of said plurality of printer resources.

12. A system according to claim 9 wherein said request comprises a request to remove said at least one of said plurality of printer resources from said second set and place said at least one of said plurality of printer resources in said first set.

13. A system according to claim 9 wherein said transaction control is located within said printer.

25 14. A system according to claim 9 wherein said transaction control generates a use report for delivery to a resource vendor.

15. A system according to claim 9 wherein said at least one of said plurality of printer resources comprises enhanced output produced by said printer relative to output produced without use of said at least one of said plurality of printer resources.

16. A system according to claim 15 wherein said at least one of said plurality of printer resources comprises a selected printer resolution.

17. A system according to claim 15 wherein said at least one of said plurality of printer resources comprises a selected printer throughput speed.

5 18. A system according to claim 15 wherein said at least one of said plurality of printer resources comprises access to selected communication channel.

19. A method of printer operation comprising the steps:  
requesting a print job, said print job including use of a selected printer resource;  
printing at a printer said print job including use of said selected printer resource; and  
10 executing a payment transaction in favor of a resource vendor as a function of said print job.

20. A method according to claim 19 wherein said method further comprises reporting use of said selected printer resource to said resource vendor.



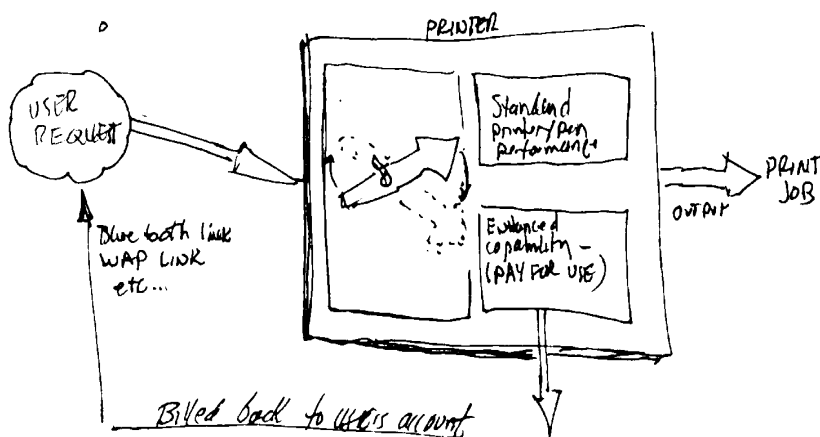
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10

ATTACHMENT (2 of 3) TO 37 CFR 1.131 INVENTOR AFFIDAVIT

- PATENT IDEA = FALCON/Printer 12/5/00  
Andis
- Business Model; Print for pay.
  - Use an acronym UHP that can enable or disable Nozzles, or other Quality attributes (speed, etc)
  - Users who Pay for more performance (Blue tooth, Regent's, billing) can access additional capability - #nozzles, IQ,



• This would be in line with HP's Super dome Server Model, where capacity/capability can be expanded/added/removed ~~for~~ for a price.

*Erin Gillespie*  
12/5/00



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U. S. Serial No.:

09/905,623

Art Unit:

2876

Filing Date:

7/13/2001

Examiner:

Koyama, Kumiko

Inventor:

Stuart Asakawa

Title:

PRINT FOR PAY PRINTER

Attorney Docket:

10011919-1


Confirmation No.:

3732

## ATTACHMENT (3 of 3) TO 37 CFR 1.131 INVENTOR AFFIDAVIT

My Invention Disclosures

Page 1 of 4

	<b>INVENTION DISCLOSURE</b>		<a href="#">Done Viewing Document</a>
	(WKRP Document No. 20010131.181552)		
	PD Number: 10011919	Date Received by Legal: 2/1/01	Managing Attorney: Stenstrom, Dennis G
Invention Disclosure status: PD Number Assigned 0% Complete			
General Information   Invention History   Description of Invention   Inventor Information   Witness Information   Additional Information   Administrative Record			

The information contained in this document is HP CONFIDENTIAL and may not be disclosed to others without prior authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is authorized, prepared, and submitted to the Government.

<b>General Information</b>
Section Complete
Title: Write a descriptive title of the invention.
<i>Falcon Print for Pay Business Model</i>
Abstract: Write a brief abstract of the invention.
<i>HP offers customers of its Superdome servers to pay for performance as needed. This idea extends that concept into the printer realm. Users would now be able to access additional printer capability (speed, quality, other attributes) for a price above the nominal performance.</i>
Projects: Select projects associated with disclosed invention.
<i>Falcon</i>
Products: Select product names or numbers associated with this invention.
<i>Dino Drake PML Gen2</i>

<b>Invention History</b>
Section Complete
Published: Was a description of the invention published, or are you planning to publish? If so, when and in what publications?
<i>No</i>
Announced: Was a product including the invention announced, offered for sale, sold, or is such activity proposed? If so, when and where?
<i>No</i>
Disclosed: Was the invention disclosed to anyone outside of HP, or will such disclosure occur? If so, when and to whom?
<i>No</i>
Urgency: Will the invention be published, announced, or disclosed in the next 3 months?
<i>No</i>

<https://wkrpweb1.cv.hp.com/cgi-bin/exec.pl>

2/1/01

<b>Described:</b> Was the invention described in a lab book or other record?
Yes <i>Described in my Manager Notebook that starts in May-2000. Entry is dated 12/5/00 (Dec-00)</i>
<b>Built:</b> Was the invention built, modeled, or tested? If so, when?
No
<b>Government Contract:</b> Was the invention made under a government contract? If so, the agency and contract number:
No

<b>Description of Invention</b> Section Complete
<b>Prior Solutions:</b> List prior solutions and their disadvantages. <i>Prior solutions to offering customers increased performance have been to bundle it with the base product, and not charge extra.</i>
<b>Problems Solved:</b> Explain the problems solved by the invention. <i>This idea unbundles performance attributes, and creates a new business model where HP can capture more print dollars.</i>
<b>Advantages:</b> What are the advantages of the invention over what has been done before? <i>The advantage of this invention is that not all users are burdened by having to pay for a level of performance that they may not need.</i> <i>Allows HP to capture incremental revenue over time.</i>
<b>Description:</b> Describe the construction and operation of the invention. <i>The business model is a printer that has a user selectable switch that can select different levels of performance, depending on what the user wants. These levels of performance can be accessed via any wireless link (or even the front panel), that can bill the user back for the enhanced service.</i> <i>The embodiment could include an ACUMEN Smart Chip that allows for the switching between levels. It could allow the user to access additional nozzles for speed, or access a premium quality mode.</i>

<b>Inventor Information</b> Section Complete												
<b>Inventor(s):</b> Pursuant to my (our) employment agreement, I (we) submit this disclosure:												
<table> <tr> <td>Asakawa, Stuart D [00254742] San Diego, CA, USA</td> <td>Telnet: 855-4870 Location Code: 111N-3100</td> <td>stuart_asakawa@am.exch.hp.com Added by Asakawa, Stuart D on 1/31/01</td> </tr> </table>	Asakawa, Stuart D [00254742] San Diego, CA, USA	Telnet: 855-4870 Location Code: 111N-3100	stuart_asakawa@am.exch.hp.com Added by Asakawa, Stuart D on 1/31/01									
Asakawa, Stuart D [00254742] San Diego, CA, USA	Telnet: 855-4870 Location Code: 111N-3100	stuart_asakawa@am.exch.hp.com Added by Asakawa, Stuart D on 1/31/01										
<b>Inventor Home Addresses:</b> Enter the home address of each inventor. This information is legally required to process your Invention Disclosure.												
<table> <tr> <th>Inventors</th> <th>Home Street Address</th> <th>City</th> <th>State/Province</th> <th>Zip/Postal Code</th> <th>Country</th> </tr> <tr> <td>Asakawa, Stuart D</td> <td>8927 Adobe</td> <td>San</td> <td>CA</td> <td>92129</td> <td>United States</td> </tr> </table>	Inventors	Home Street Address	City	State/Province	Zip/Postal Code	Country	Asakawa, Stuart D	8927 Adobe	San	CA	92129	United States
Inventors	Home Street Address	City	State/Province	Zip/Postal Code	Country							
Asakawa, Stuart D	8927 Adobe	San	CA	92129	United States							



Bluffs Drive      Diego		(US)
<b>Inventor Citizenships:</b> Select the country of citizenship for each inventor.		
<b>Inventors</b> Asakawa, Stuart D	<b>Country of Citizenship</b> United States (US)	
<b>Inventor Mail Stops:</b> Enter the HP Mail Stop for each inventor.		
<b>Inventors</b> Asakawa, Stuart D	<b>HP Mail Stop</b> 61U-205A	
<b>Non-HP Inventors:</b> Please list the names, home addresses, telephone numbers, email addresses, and countries of citizenship of inventors who are not affiliated with HP.		

**Witness Information**

Section Complete

**Witnesses:** This invention has been explained to and understood by the following witnesses.

Wiesner, Eric G  
 (00318957)  
 San Diego, CA, USA

Telnet: 655-6533  
 Location Code: 111N-3100

eric\_wiesner@am.exch.hp.com  
 Added by Asakawa, Stuart D on 1/31/01

**Witness Dates:** At what date was this invention first explained to and understood by each witness?

**Witnesses**  
 Wiesner, Eric G

**Date Understood**  
 December 5, 2000

**Additional Information**

Section Complete

**Electronic Documents:** Do you have electronic document files to upload?

File Name	Size	Uploaded	Uploaded By
Click to View	Bytes	Date	User
p4ppatent.ppt	55808	1/31/01	

**Paper Documents:** Do you have paper documents to include with your Invention Disclosure that you would like to send by FAX?**Categories:** Select WKRP categories where this invention disclosure should be indexed.

*Business Models*  
*General: Host Product*  
*Print for Pay*

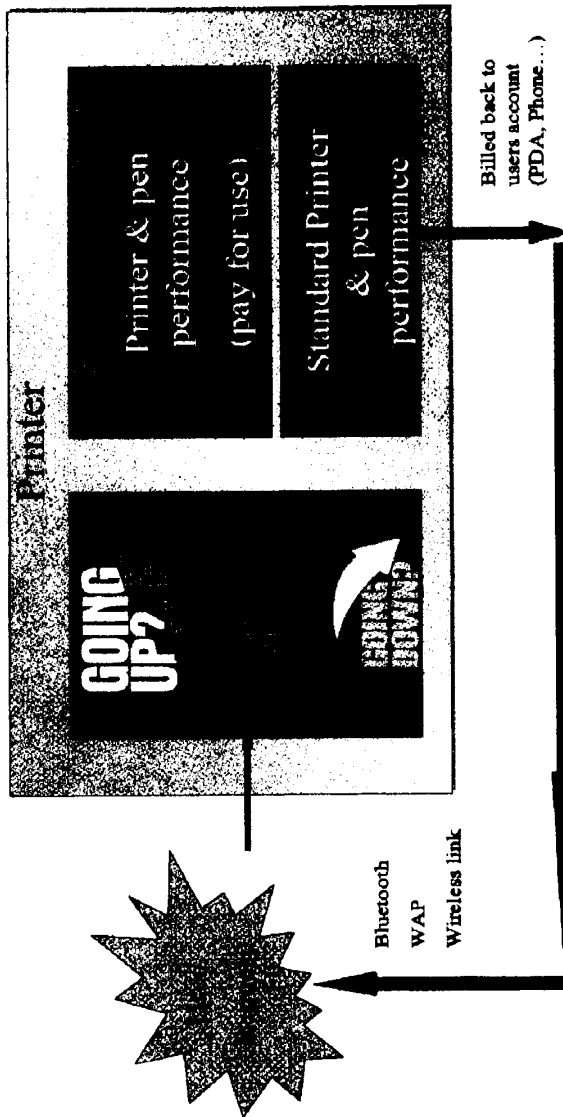
<b>Keyword(s):</b> Select keywords to index this invention disclosure.
Acumen Business model Smart Chip print for pay
<b>Invention Workshop:</b> Was this Invention Disclosure prepared as a result of an Invention Workshop? If you are not sure, select No.
No

<b>Administrative Record</b> Section Complete		
<b>Legal Admin:</b> Select the name of the Legal Admin(s) working on this Invention Disclosure:		
Lygas, Ann [00515615] San Diego, CA, USA	Telnet: 655-4926 Location Code: 0000-1622	ann_lygas@am.exch.hp.com Added by Lygas, Ann on 2/1/01
<b>PD Number and Legal Received Date:</b> Record the PD number assigned by Merlin and modify the date this disclosure was received, if necessary.		
10011919 February 1, 2001		
<b>Patent Coordinator(s):</b> Select Patent Coordinator(s) who will work on this Invention Disclosure:		
Childers, Winthrop D [00254722] San Diego, CA, USA	Telnet: 655-4911 Location Code: 111N-5129	winthrop_childers@am.exch.hp.com Added by Lygas, Ann on 2/1/01
<b>Managing Attorney(s):</b> Select Managing Attorney(s) assigned to this Invention Disclosure:		
Stenstrom, Dennis G [00202299] San Diego, CA, USA	Telnet: 655-8488 Location Code: 0000-1037	dennis_stenstrom@am.exch.hp.com Added by Lygas, Ann on 2/1/01
<b>Legal Entity and Site:</b> Select a Legal Entity and Site where this Invention Disclosure will be handled and reviewed:		
IJS San Diego		

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# Print for Pay Business Model



Stuart Asakawa 1/31/01 HP Confidential